[﻿﻿﻿Install WSL | Microsoft Learn](https://learn.microsoft.com/en-us/windows/wsl/install)

wsl –install

<https://itsfoss.com/install-pycharm-ubuntu/>  
<https://www.jetbrains.com/pycharm/download/#section=linux>

sudo snap install pycharm-community –classic

[How To Install Python 3 and Set Up a Programming Environment on an Ubuntu 20.04 Server | DigitalOcean](https://www.digitalocean.com/community/tutorials/how-to-install-python-3-and-set-up-a-programming-environment-on-an-ubuntu-20-04-server)

sudo apt update

sudo apt -y upgrade  
sudo apt install libgl1-mesa-glx  
sudo apt install -y python3-pip

sudo apt install -y build-essential libssl-dev libffi-dev python3-dev

sudo pip install numpy

sudo pip install kivy

sudo pip install kivymd

sudo pip install kivy-garden

sudo pip install matplotlib

sudo pip install pillow

1. pip install kivy
2. pip install kivy-garden
3. garden install matplotlib
4. pip install matplotlib==2.2.2

sudo apt install -y python3-venv

mkdir environments

cd environments

python3 -m venv my\_env

source my\_env/bin/activate

**Copy files to Ubuntu:**

cp /mnt/c/Users/shpry/PycharmProjects/Cal/\*.\* /home/shpyang/environments/cal

**pre-install needed packages:**

sudo pip install buildozer  
sudo pip install cython==0.29.34  
sudo apt install default-jdk  
sudo apt install unzip  
sudo apt install sdkmanager  
sudo apt update && sudo apt install android-sdk  
sudo apt-get install autoconf automake libtool  
sudo apt-get install zip

sudo apt install cmake

**For new APPs, start from here:  
sudo buildozer init**nano buildozer.spec

**sudo buildozer android debug  
sudo buildozer -Q android debug**

**sudo buildozer android clean**

buildozer android clean

plot2icon.png plot2logoresizecircle.png  
   
   
sudo buildozer init

cp /mnt/c/Users/shpry/PycharmProjects/cal/main.py /home/shpyang/environments/cal/

buildozer -Q android debug  
cp /home/shpyang/environments/cal/bin/ /home/shpyang/environments/cal/bin/

cp /home/shpyang/environments/cal/bin/ /mnt/c/Users/shpry/PycharmProjects/cal/